

Mentzelia packardiae Glad (1976)**PACKARD STICKLEAF**

FAMILY: *Loasaceae*, the stick-leaf family.

STATUS:

Heritage Program SENSITIVE LIST, ranks: G1Q S1

USFWS/ESA: species of concern. **STATE OF NEVADA:** none. **BLM:** Special Status Species in Nevada.

USFS: none. **NNNPS:** THREATENED.

POPULATION CENSUS (NEVADA): 1 occurrence mapped; total estimated individuals unknown, total estimated area unknown. **TREND:** unknown.

IMPACTS AND MAJOR THREATS (NEVADA): No summary available (see references).

INVENTORY EFFORT (NEVADA): Known only from one 1982 collection, not further inventoried. Most recent entered survey 1982. **Years since last entered survey** (percent of mapped records at various survey ages): **11-20 yrs:** 100%.

LAND MANAGEMENT (NEVADA) in decreasing predominance: U. S. Bureau of Land Management, private lands (?).

RANGE: Elko County, Nevada; also in OR. Known in Nevada only from the eastern Owyhee Desert. **Type specimen** collected in Malheur County, Oregon.

ELEVATIONS RECORDED (NEVADA): 5250 feet (1600 meters).

HABITAT (NEVADA): Dry, open, rocky, tuffaceous, barren, pale brownish fluviolacustrine ashy clay interbedded with river gravels consisting of reddish quartz and weathered obsidian, sloping 5 degrees west to 15 degrees southeast.

PHENOLOGY: flowering late-spring. Apparent peak of reproductive activity in June. Range of most frequent **survey months:** June.

LIFE-FORM AND HABIT: annual.

DESCRIPTION: Upright annual 4-16 inches high with bright yellow 5-petaled flowers half to one inch across, smooth whitish stems, and rough, green, alternate, mostly unlobed leaves. **Distinguishing features:** Seeds irregularly angled or rounded, papillose; bracts entire; all fruit recurved < 90 degrees; basal leaf rosette none or loosely formed, most leaves entire, linear to narrowly lanceolate; branches few or none; seeds with low, truncate, microscopically reticulated papillae.

PHOTOGRAPHS: Eastman (1990), Glad (1976); Nevada Natural Heritage Program images web page (1998-present).

ILLUSTRATIONS: Meinke (1982).

SPECIFIC REFERENCES:

Glad, J. B. 1976. Taxonomy of *Mentzelia mollis* and allied species (*Loasaceae*). *Madroño* 23: 283-292.

Grimes, J. W. 1984. Notes on the flora of Leslie Gulch, Malheur County, Oregon. *Madroño* 31: 80-85.

Schoolcraft, G. and A. Tiehm. 1985. Noteworthy collections, Nevada. *Madroño* 32: 123-124.

OF FURTHER INTEREST: May be lumped with *Mentzelia mollis* in upcoming Intermountain Flora treatment by Cronquist.
